

Regional HIV/AIDS Epidemiologic Profile of Southeast HSR, Massachusetts: 2014

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2014, this resulted in the removal of 4,135 HIV/AIDS cases, of which 973 have died and 3,162 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location at diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS Surveillance System. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that previous HIV/AIDS fact sheets, data reports and presentations included cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual reported risk category for men; those cases have been reassigned to the no identified risk (NIR) category. The presumed heterosexual reported risk category was used with the intention of identifying HIV reported risk for women when sex with men is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of men living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual reported risk category. The application of the presumed heterosexual reported risk category to men is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate reported risks that are possible for men, including sex with other men (MSM) or IDU. The CDC reports men diagnosed with HIV/AIDS who report sex with women as their only risk factor, without corresponding partner risk or HIV status information, in the NIR category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for men in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual reported risk categories for women.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2013: Southeast HSR, Massachusetts²

	N	%
People Living with HIV/AIDS	2,616	57%
People Reported with HIV or AIDS who are Deceased	1,939	43%
Total Number of People Reported with HIV Infection or AIDS	4,555	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14

Table 2. Average annual rate of HIV infection diagnosis from 2010 to 2012 and HIV/AIDS prevalence rate on 12/31/13¹: Southeast HSR, Massachusetts²

Average annual HIV diagnosis rate from 2010–2012	Average rate per 100,000	Average annual number of HIV diagnoses
Southeast HSR, MA	7.4	93.7
Massachusetts Total	10.5	688.3

HIV/AIDS prevalence rate on 12/31/13	Rate per 100,000	Number of people living with HIV/AIDS
Southeast HSR, MA	206.5	2,616
Massachusetts Total	292.7	19,165

¹ The denominators for rate calculations are from the MDPH Massachusetts Race Allocated Census 2010 Estimates (MRACE 2010), Massachusetts Department of Public Health, Bureau of Health Information, Statistics, Research, and Evaluation.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2003–2012, Southeast HSR, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2003	2,009	69	118
2004	2,072	52	115
2005	2,126	55	109
2006	2,198	45	117
2007	2,273	40	115
2008	2,317	51	95
2009	2,383	49	115
2010	2,426	47	90
2011	2,488	28	90
2012	2,553	36	101

¹ Number of people living with HIV/AIDS on 12/31 of each year

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14

Table 4. People diagnosed with HIV infection from 2010–2012¹ and people living with HIV/AIDS on December 31, 2013 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Southeast HSR, Massachusetts²

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	201	72%	1,854	71%
Female	80	28%	762	29%
Place of Birth:	N	%	N	%
US	186	66%	1,958	75%
Puerto Rico/US Dependency ³	13	5%	153	6%
Non-US	82	29%	505	19%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	148	53%	1,594	61%
Black (non-Hispanic)	89	32%	591	23%
Hispanic/Latino	36	13%	387	15%
Asian/Pacific Islander	-- ⁷	-- ⁷	17	1%
Other/Unknown	-- ⁷	-- ⁷	27	1%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	123	44%	1,039	40%
Injection Drug Use (IDU)	23	8%	520	20%
MSM/IDU	10	4%	86	3%
Heterosexual Sex	25	9%	397	15%
Other	0	0%	53	2%
Total Undetermined	100	36%	521	20%
• Presumed Heterosexual Sex ⁴	41	15%	194	7%
• Undetermined ⁵	59	21%	327	13%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2013	
Under 13	0	0%	3	<1%
13 to 19	8	3%	10	<1%
20 to 24	30	11%	38	1%
25 to 29	21	7%	76	3%
30 to 34	33	12%	98	4%
35 to 39	26	9%	151	6%
40 to 44	38	14%	239	9%
45 to 49	51	18%	450	17%
50 to 54	28	10%	610	23%
55 to 59	28	10%	463	18%
60+	18	6%	478	18%
Total⁶	281	100%	2,616	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-eight percent of people diagnosed with HIV infection from 2010–2012 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁷ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

Table 5. People living with HIV/AIDS on December 31, 2013 by gender and race/ethnicity: Southeast HSR, Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	1,254	68%	340	45%
Black (non-Hispanic)	319	17%	272	36%
Hispanic/Latino	253	14%	-- ³	-- ³
Asian/Pacific Islander	13	1%	-- ³	-- ³
Total²	1,854	100%	762	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

³ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

Table 6. People living with HIV/AIDS on December 31, 2013 by gender and exposure mode: Southeast HSR, Massachusetts¹

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	1,039	56%	N/A	N/A
Injection drug use (IDU)	306	17%	214	28%
MSM/IDU	86	5%	N/A	N/A
Heterosexual sex	113	6%	284	37%
Other	31	2%	22	3%
Total Undetermined	279	15%	242	32%
• Presumed heterosexual sex ²	N/A	N/A	194	25%
• Undetermined ³	279	15%	48	6%
Total	1,854	100%	762	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Southeast HSR, Massachusetts¹, 2003–2012²

	Male		Female		Total
	N	%	N	%	
2003	80	68%	38	32%	118
2004	88	77%	27	23%	115
2005	90	83%	19	17%	109
2006	84	72%	33	28%	117
2007	90	78%	25	22%	115
2008	69	73%	26	27%	95
2009	83	72%	32	28%	115
2010	68	76%	22	24%	90
2011	60	67%	30	33%	90
2012	73	72%	28	28%	101

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Southeast HSR, Massachusetts¹, 2003–2012²

	White Non-Hispanic		Black Non-Hispanic		Hispanic/Latino		Total ³
	N	%	N	%	N	%	N
2003	76	64%	29	25%	11	9%	118
2004	62	54%	22	19%	28	24%	115
2005	65	60%	30	28%	13	12%	109
2006	67	57%	29	25%	15	13%	117
2007	64	56%	26	23%	23	20%	115
2008	51	54%	31	33%	12	13%	95
2009	61	53%	32	28%	21	18%	115
2010	52	58%	26	29%	12	13%	90
2011	47	52%	29	32%	9	10%	90
2012	49	49%	34	34%	15	15%	101

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Totals include Asian/Pacific Islander, American Indian/Alaskan Native individuals, and those of other or undetermined race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Southeast HSR, Massachusetts¹, 2003–2012²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	N
2003	86	73%	7	6%	25	21%	118
2004	77	67%	12	10%	26	23%	115
2005	81	74%	6	6%	22	20%	109
2006	82	70%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	117
2007	75	65%	6	5%	34	30%	115
2008	62	65%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	95
2009	79	69%	5	4%	31	27%	115
2010	68	76%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	90
2011	58	64%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	90
2012	60	59%	9	9%	32	32%	101

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 1% were born in an unknown dependency.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Southeast HSR, Massachusetts¹, 2003–2012²

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ³		Undeter- mined ⁴		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	42	36%	19	16%	-- ⁵	-- ⁵	19	16%	-- ⁵	-- ⁵	14	12%	19	16%	118
2004	47	41%	14	12%	-- ⁵	-- ⁵	14	12%	-- ⁵	-- ⁵	10	9%	26	23%	115
2005	51	47%	15	14%	-- ⁵	-- ⁵	12	11%	-- ⁵	-- ⁵	5	5%	21	19%	109
2006	58	50%	12	10%	-- ⁵	-- ⁵	10	9%	-- ⁵	-- ⁵	14	12%	22	19%	117
2007	52	45%	15	13%	-- ⁵	-- ⁵	15	13%	-- ⁵	-- ⁵	8	7%	22	19%	115
2008	37	39%	8	8%	7	7%	17	18%	0	0%	9	9%	17	18%	95
2009	46	40%	8	7%	-- ⁵	-- ⁵	19	17%	-- ⁵	-- ⁵	12	10%	27	23%	115
2010	45	50%	10	11%	-- ⁵	-- ⁵	10	11%	-- ⁵	-- ⁵	9	10%	14	16%	90
2011	38	42%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	9	10%	0	0%	15	17%	21	23%	90
2012	40	40%	9	9%	5	5%	6	6%	0	0%	17	17%	24	24%	101

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Southeast HSR, Massachusetts¹, 2003–2012²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2003	46	118	39%
2004	47	115	41%
2005	38	109	35%
2006	47	117	40%
2007	40	115	35%
2008	36	95	38%
2009	39	115	34%
2010	30	90	33%
2011	32	90	36%
2012	29	101	29%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Southeast HSR, Massachusetts,¹ 2010–2012²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male	61	201	30%
Female	30	80	38%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	39	148	26%
Black (non-Hispanic)	34	89	38%
Hispanic/Latino	11	36	31%
Asian/Pacific Islander	-- ⁵	-- ⁵	-- ⁵
Other/Undetermined ³	-- ⁵	-- ⁵	-- ⁵
Place of Birth:	N	N	%
US	-- ⁵	-- ⁵	-- ⁵
Puerto Rico/US Dependencies ⁴	-- ⁵	-- ⁵	-- ⁵
Non-US	33	82	40%
Total	91	281	32%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁴ Ninety-eight percent of people diagnosed with HIV infection from 2010–2012 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/14